



OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area
[1496954]
 Machine Id
NO UNIT WC0891072
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)



DIAGNOSIS

Recommendation
 We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear
 All component wear rates are normal.

Contamination
 Fuel content negligible. There is a moderate concentration of water present in the oil. Test for glycol is negative.

Fluid Condition
 Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0891072	---	---
Sample Date	Client Info	07 Jan 2024	---	---
Machine Age	kms Client Info	495530	---	---
Oil Age	kms Client Info	0	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>100	12	---	---
Chromium ppm ASTM D5185(m)	>20	1	---	---
Nickel ppm ASTM D5185(m)	>4	<1	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)	>3	0	---	---
Aluminum ppm ASTM D5185(m)	>20	2	---	---
Lead ppm ASTM D5185(m)	>40	5	---	---
Copper ppm ASTM D5185(m)	>330	<1	---	---
Tin ppm ASTM D5185(m)	>15	<1	---	---
Antimony ppm ASTM D5185(m)		0	---	---
Vanadium ppm ASTM D5185(m)		0	---	---
Beryllium ppm ASTM D5185(m)		0	---	---
Cadmium ppm ASTM D5185(m)		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)	250	10	---	---
Barium ppm ASTM D5185(m)	10	0	---	---
Molybdenum ppm ASTM D5185(m)	100	57	---	---
Manganese ppm ASTM D5185(m)		0	---	---
Magnesium ppm ASTM D5185(m)	450	920	---	---
Calcium ppm ASTM D5185(m)	3000	1377	---	---
Phosphorus ppm ASTM D5185(m)	1150	806	---	---
Zinc ppm ASTM D5185(m)	1350	959	---	---
Sulfur ppm ASTM D5185(m)	4250	2160	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>25	6	---	---
Sodium ppm ASTM D5185(m)	>158	5	---	---
Potassium ppm ASTM D5185(m)	>20	4	---	---
Fuel % ASTM D7593*	>5	0.2	---	---
Water % ASTM D6304*	>0.2	▲ 0.586	---	---
ppm Water ppm ASTM D6304*	>2000	▲ 5868	---	---
Glycol % ASTM D7922*		0.0	---	---

INFRA-RED

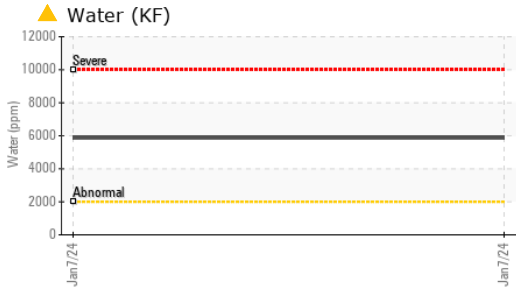
method	limit/base	current	history1	history2
Soot % ASTM D7844*	>3	0	---	---
Nitration Abs/cm ASTM D7624*	>20	15.3	---	---
Sulfation Abs/.1mm ASTM D7415*	>30	24.6	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation Abs/.1mm ASTM D7414*	>25	23.3	---	---



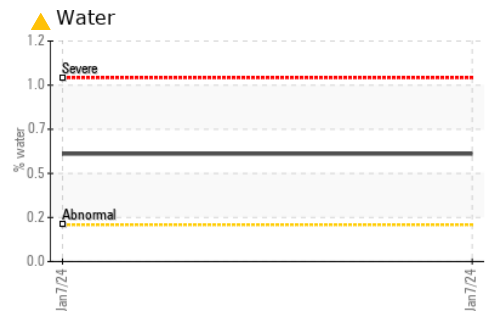
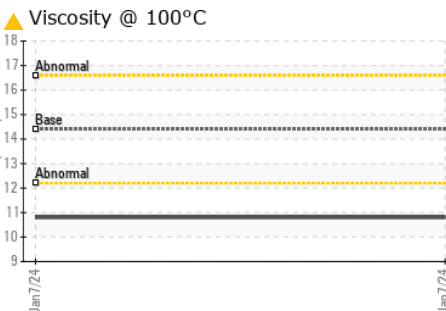
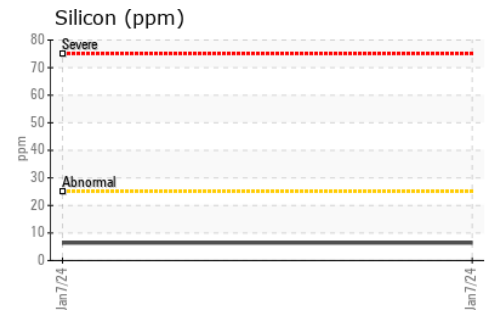
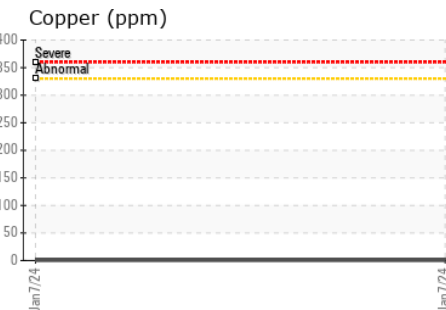
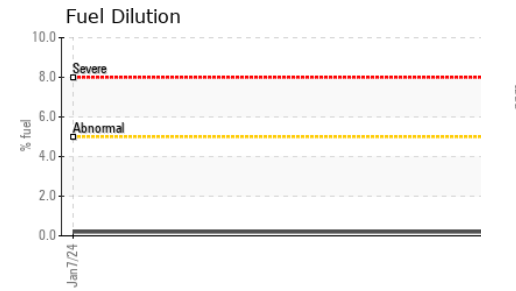
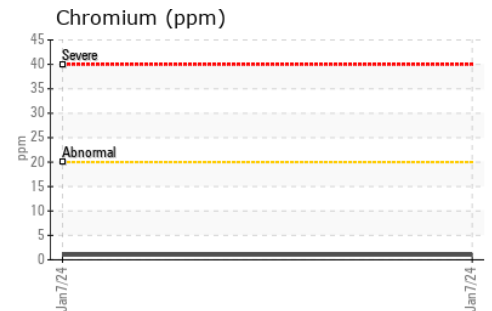
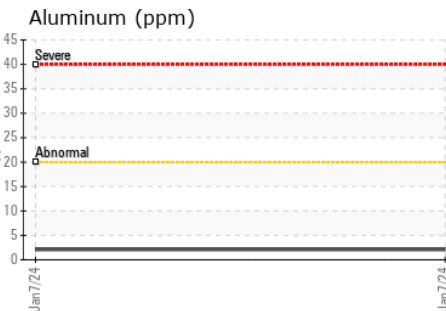
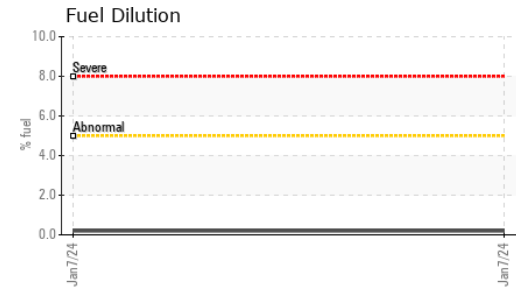
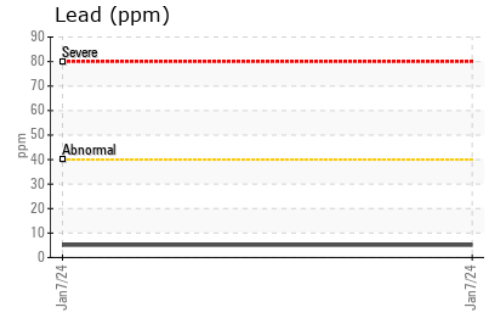
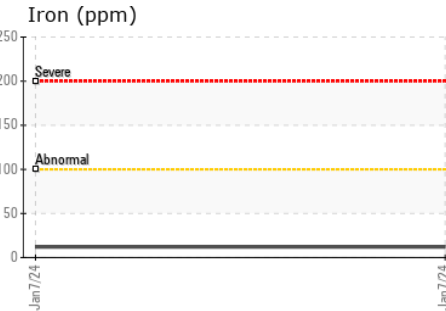
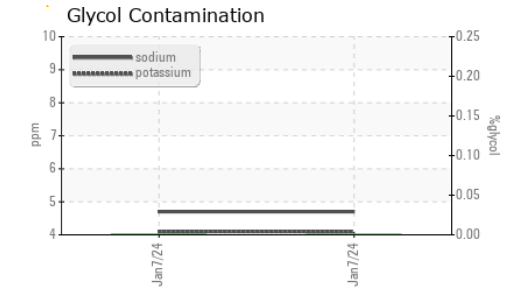
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2 ▲ .2%	---	---
Free Water	scalar	Visual*	NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4 ▲ 10.8	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0891072 **Received** : 11 Jan 2024
Lab Number : **02608123** **Diagnosed** : 15 Jan 2024
Unique Number : 5709209 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KF, PercentFuel)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.